

ABSTRACT OF THE DISCLOSURE

An apparatus for controlling the temperature of an electronic device under test includes a thermal head having a temperature controlled surface for making thermal contact with the electronic device. The thermal head defines a flow channel for passage of a refrigerant fluid so as to cause transfer of thermal energy between the electronic device and the thermal head. A refrigeration system is connected in fluid communication with the flow channel of the thermal head to supply refrigerant fluid thereto. The refrigeration system includes a metering valve operative to regulate introduction of the refrigerant fluid into the thermal head. A controller is operative to control the metering valve for maintaining a predetermined temperature at the temperature controlled surface.